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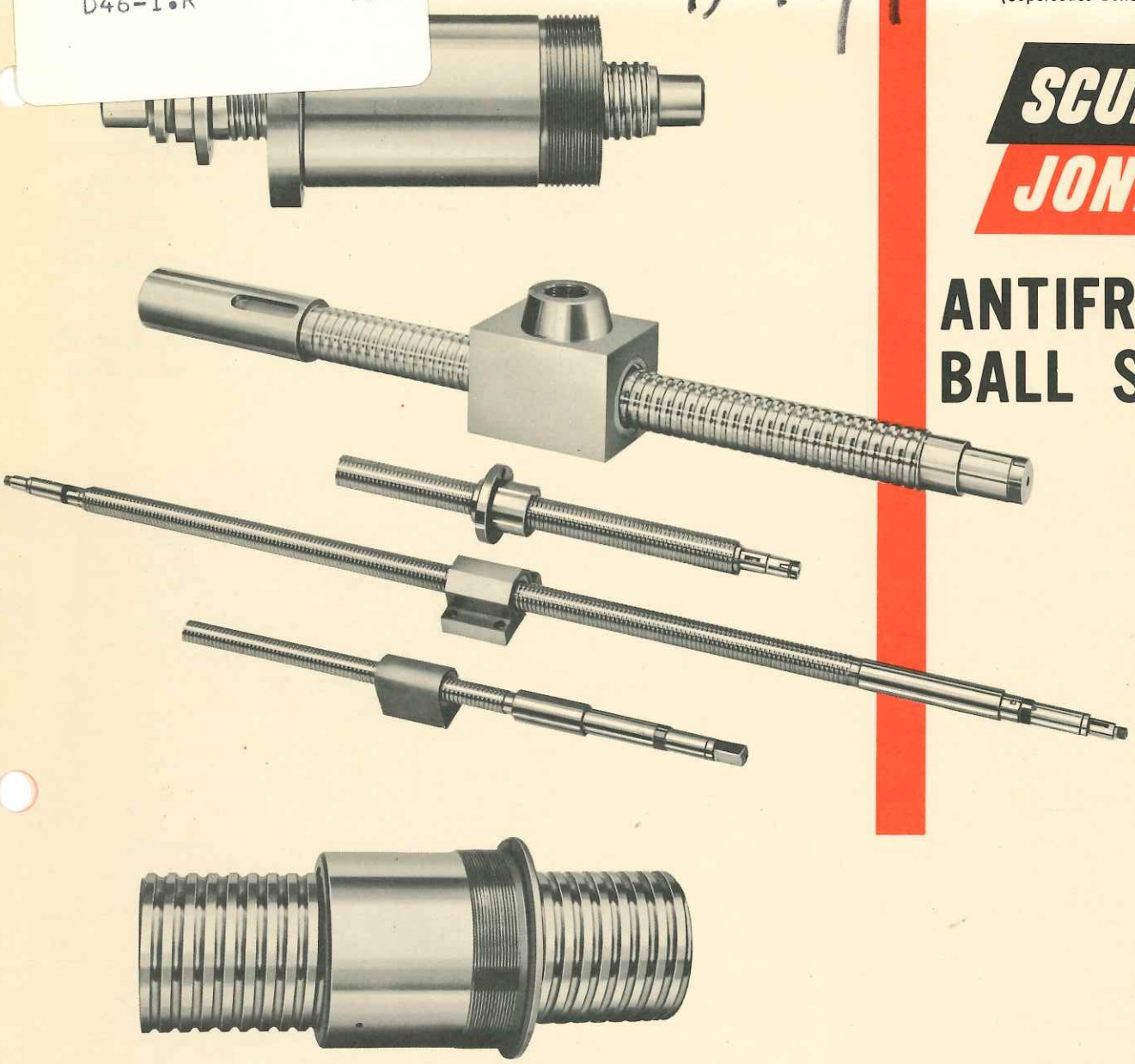
CATALOG NO. 25-62
(Supersedes Bulletin No. 25-50)

SCULLY JONES®

# ANTIFRICTION BALL SCREWS





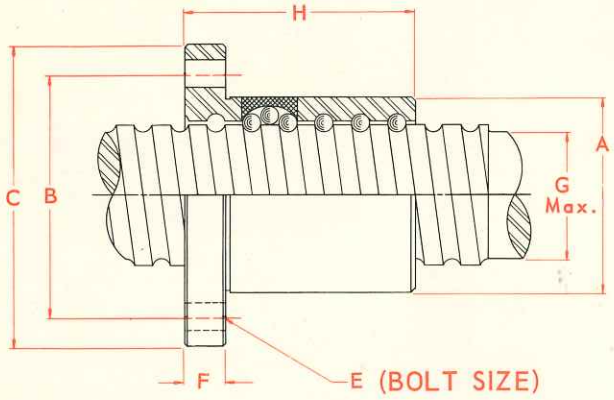
Scully-Jones ball screws are designed and manufactured in a wide variety of sizes and designs for applications ranging from heavy equipment to precision machine tools. They eliminate friction with a mechanical efficiency of 90% or more. Patented internal ball return eliminates the usual projecting tubes for recirculating the balls, resulting in a simple, compact nut arrangement. Can be furnished with preloaded nut assemblies to eliminate backlash and reduce yield under load. These ball screws are ideally suited for applications in which smooth, friction-free motion is desired.

All Scully-Jones ball screws are designed and manufactured to meet the requirements of specific applications. Use the information in this catalog as a design guide, then send us the detailed data for your application, using the enclosed data sheets. This will enable us to submit to you our proposal of the proper screw for your application.

SOLD THROUGH :

SCULLY International

BEARING DIVISION
SCULLY INTERNATIONAL, INC—A SUBSIDIARY OF SCULLY JONES
5240 BELMONT RD. • DOWNERS GROVE, ILLINOIS 60515 • U.S.A.
PHONE: 969-5333 AREA CODE 312 • CABLE: SCULLJO CHICAGO




# SINGLE NUT ASSEMBLIES

Because of the simple and compact design of the Scully-Jones ball nuts, they can be mounted directly in a plain housing bore, usually fastened with a flange as shown. However, the nuts can be furnished without this flange and with a keyway if they are to be held in the housing bore with a snap ring or similar means. Somewhat smaller nut configurations may be possible under certain conditions. Please submit complete details on Scully-Jones Data Sheets and mail directly to Scully International, Inc.

The single nut mountings have an approximate backlash of .002" - .005". For lightly loaded applications, assemblies can be furnished with a backlash of less than .001".

All dimensions are in inches.

| PITCH DIA. | LEAD | A | | B | C | E * | F | G MAX † | H | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | NUT DIA. | HOUSING BORE | | | | | | NO. OF BALL CIRCUITS | | | | |
| | | | | | | | | | 2 | 3 | 4 | 5 | 6 |
| ½ | .1 | .7495/.7490 | .750/.751 | 1 1/16 | 1 13/32 | #8 | 1/4 | .432 | 13/16 | | | | |
| | .2 | .8745/.8740 | .875/.876 | 1 3/16 | 1 17/32 | #8 | 1/4 | .369 | 1 3/16 | | | | |
| ¾ | .1 | .9995/.9990 | 1.000/1.001 | 1 3/8 | 1 13/16 | #10 | 1/4 | .682 | 13/16 | 15/16 | | | |
| | .2 | 1.1245/1.1240 | 1.125/1.126 | 1½ | 1 15/16 | #10 | 1/4 | .619 | 1 3/16 | 1 3/8 | | | |
| | .25 | 1.1245/1.1240 | 1.125/1.126 | 1½ | 1 15/16 | #10 | 1/4 | .619 | 1 5/16 | 1 5/8 | | | |
| 1 | .1 | 1.2495/1.2490 | 1.250/1.251 | 1 11/16 | 2¼ | 1/4 | 3/8 | .932 | 1 | 1 1/8 | 1 3/16 | | |
| | .2 | 1.3745/1.3740 | 1.375/1.376 | 1 13/16 | 2 3/8 | 1/4 | 3/8 | .869 | 1 5/16 | 1 9/16 | 1¾ | | |
| | .25 | 1.3745/1.3740 | 1.375/1.376 | 1 13/16 | 2 3/8 | 1/4 | 3/8 | .869 | 1 7/16 | 1¾ | 2 | | |
| 1¼ | .2 | 1.6245/1.6240 | 1.625/1.626 | 2 1/16 | 2 5/8 | 1/4 | 3/8 | 1.119 | 1 5/16 | 1 9/16 | 1¾ | 2 | |
| | .25 | 1.6245/1.6240 | 1.625/1.626 | 2 1/16 | 2 5/8 | 1/4 | 3/8 | 1.119 | 1 7/16 | 1¾ | 2 | 2 5/16 | |
| | .5 | 1.9370/1.9365 | 1.9375/1.9385 | 2 3/8 | 2 15/16 | 1/4 | 3/8 | .993 | 2 3/8 | | | | |
| 1½ | .2 | 1.9370/1.9365 | 1.9375/1.9385 | 2½ | 3 3/16 | 5/16 | ½ | 1.369 | 1 9/16 | 1¾ | 2 | 2¼ | 2 7/16 |
| | .25 | 1.9370/1.9365 | 1.9375/1.9385 | 2½ | 3 3/16 | 5/16 | ½ | 1.369 | 1 5/8 | 1 15/16 | 2 3/16 | 2½ | 2¾ |
| | .5 | 2.1870/2.1865 | 2.1875/2.1885 | 2¾ | 3 7/16 | 5/16 | ½ | 1.243 | 2½ | 3 1/16 | | | |
| 1¾ | .2 | 2.249 / 2.248 | 2.250/2.251 | 2 13/16 | 3½ | 5/16 | ½ | 1.619 | 1 9/16 | 1¾ | 2 | 2¼ | 2 7/16 |
| | .25 | 2.249 / 2.248 | 2.250/2.251 | 2 13/16 | 3½ | 5/16 | ½ | 1.619 | 1 5/8 | 1 15/16 | 2 3/16 | 2½ | 2¾ |
| | .5 | 2.4365/2.4355 | 2.4375/2.4385 | 3 | 3 11/16 | 5/16 | ½ | 1.493 | 2 9/16 | 3 1/16 | | | |
| 2 | .2 | 2.499/2.498 | 2.500/2.501 | 3 1/8 | 3 15/16 | 3/8 | 9/16 | 1.869 | 1 5/8 | 1 7/8 | 2 1/16 | 2 5/16 | 2½ |
| | .25 | 2.499/2.498 | 2.500/2.501 | 3 1/8 | 3 15/16 | 3/8 | 9/16 | 1.869 | 1¾ | 2 1/16 | 2 5/16 | 2 9/16 | 2 13/16 |
| | .5 | 2.6865/2.6855 | 2.6875/2.6885 | 3 5/16 | 4 1/8 | 3/8 | 9/16 | 1.743 | 2 5/8 | 3¼ | 3¾ | | |
| 2¼ | .25 | 2.749/2.748 | 2.750/2.751 | 3 3/8 | 4 3/16 | 3/8 | 9/16 | 2.119 | 1 13/16 | 2 1/8 | 2 3/8 | 2 5/8 | 2 7/8 |
| | .5 | 2.9365/2.9355 | 2.9375/2.9885 | 3 9/16 | 4 3/8 | 3/8 | 9/16 | 1.993 | 2 11/16 | 3 5/16 | 3 13/16 | 4 5/16 | |
| 2½ | .25 | 3.0615/3.0605 | 3.0625/3.0635 | 3 15/16 | 4 15/16 | ½ | ¾ | 2.369 | 2 | 2 5/16 | 2 9/16 | 2 13/16 | 3 1/16 |
| | .5 | 3.249/3.248 | 3.250/3.251 | 4 1/8 | 5 1/8 | ½ | ¾ | 2.212 | 2 15/16 | 3½ | 4 1/16 | 4 9/16 | |
| 3 | .5 | 3.874/3.873 | 3.875/3.876 | 4¾ | 5¾ | ½ | ¾ | 2.712 | 3 1/16 | 3 5/8 | 4 3/16 | 4¾ | 5¼ |
| | .75 | 3.999/3.998 | 4.000/4.001 | 4 7/8 | 5 7/8 | ½ | ¾ | 2.618 | 3 7/8 | 4¾ | 5 9/16 | | |
| 4 | .5 | 4.999/4.998 | 5.000/5.001 | 5 7/8 | 6 7/8 | ½ | ¾ | 3.712 | 3 1/16 | 3 5/8 | 4 3/16 | 4¾ | 5¼ |
| | .75 | 5.124/5.123 | 5.125/5.126 | 6 | 7 | ½ | ¾ | 3.618 | 3 7/8 | 4¾ | 5 9/16 | 6 3/8 | |
| | 1.0 | 5.374/5.373 | 5.375/5.376 | 6 7/16 | 7 9/16 | 5/8 | 1 | 3.492 | 4 15/16 | 6 1/8 | 7 3/16 | | |

† One end of screw must not exceed diameter "G"

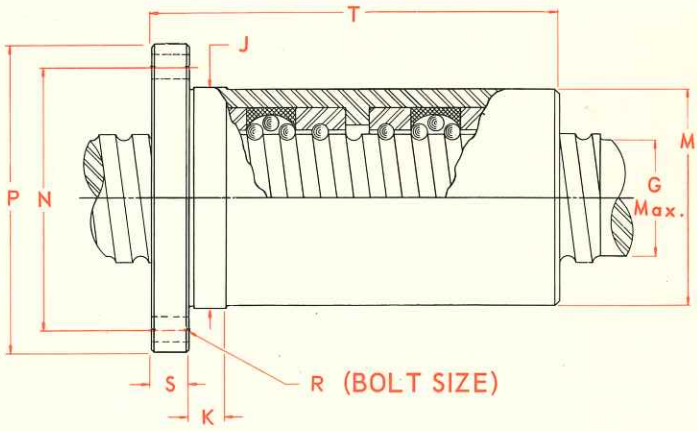
* Flanges have four bolt holes equally spaced, except 3" and 4" pitch diameter screws, which have six holes.

NOTE: When wipers are required, add 2 x lead to length H.

# PRELOADED NUT ASSEMBLIES

Preloaded ball nut assemblies are used in applications where no backlash can be tolerated. The units are furnished by Scully-Jones completely assembled and preloaded, ready for installation.

The flanged nut housing shown here is only one of the many designs possible with the compact Scully-Jones nuts. Other typical arrangements are illustrated on the reverse side of our data sheets. Please use these data sheets for furnishing complete information to enable us to submit to you complete proposals of the proper screws for your application.




All dimensions are in inches.

| PITCH DIA. | LEAD | J | K | M | N | P | R* | S | G MAX † | T NO. OF BALL CIRCUITS PER NUT | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | 2 | 3 | 4 | 5 | 6 |
| ½ | .1 | 1.124/1.123 | ¼ | 1 3/32 | 1 7/16 | 1 25/32 | #8 | ¼ | .432 | 1 5/8 | | | | |
| | .2 | 1.249/1.248 | ¼ | 1 7/32 | 1 9/16 | 1 29/32 | #8 | ¼ | .369 | 2 3/8 | | | | |
| ¾ | .1 | 1.374/1.373 | ¼ | 1 11/32 | 1¾ | 2 3/16 | #10 | ¼ | .682 | 1 5/8 | 1 7/8 | | | |
| | .2 | 1.499/1.498 | ¼ | 1 15/32 | 1 7/8 | 2 5/16 | #10 | ¼ | .619 | 2 3/8 | 2 13/16 | | | |
| | .25 | 1.499/1.498 | ¼ | 1 15/32 | 1 7/8 | 2 5/16 | #10 | ¼ | .619 | 2 5/8 | 3¼ | | | |
| 1 | .1 | 1.624/1.623 | 3/8 | 1 19/32 | 2 1/16 | 2 5/8 | ¼ | 3/8 | .932 | 2 | 2¼ | 2 7/16 | | |
| | .2 | 1.749/1.748 | 3/8 | 1 23/32 | 2 3/16 | 2¾ | ¼ | 3/8 | .869 | 2 5/8 | 3 1/16 | 3½ | | |
| | .25 | 1.749/1.748 | 3/8 | 1 11/16 | 2 3/16 | 2¾ | ¼ | 3/8 | .869 | 2 7/8 | 3½ | 4 | | |
| 1¼ | .2 | 1.999/1.998 | 3/8 | 1 15/16 | 2 7/16 | 3 | ¼ | 3/8 | 1.119 | 2 5/8 | 3 1/16 | 3½ | 3 15/16 | |
| | .25 | 1.999/1.998 | 3/8 | 1 15/16 | 2 7/16 | 3 | ¼ | 3/8 | 1.119 | 2 7/8 | 3½ | 4 | 4 9/16 | |
| | .5 | 2.3115/2.3105 | 3/8 | 2¼ | 2¾ | 3 5/16 | ¼ | 3/8 | .993 | 4¾ | | | | |
| 1½ | .2 | 2.3115/2.3105 | ½ | 2¼ | 2 7/8 | 3 9/16 | 5/16 | ½ | 1.369 | 3 1/8 | 3 9/16 | 4 | 4 7/16 | 4 7/8 |
| | .25 | 2.3115/2.3105 | ½ | 2¼ | 2 7/8 | 3 9/16 | 5/16 | ½ | 1.369 | 3¼ | 3 7/8 | 4 3/8 | 4 15/16 | 5 7/16 |
| | .5 | 2.5615/2.5605 | ½ | 2½ | 3 1/8 | 3 13/16 | 5/16 | ½ | 1.243 | 5 | 6 3/16 | | | |
| 1¾ | .2 | 2.749/2.748 | ½ | 2 11/16 | 3 5/16 | 4 | 5/16 | ½ | 1.619 | 3 1/8 | 3 9/16 | 4 | 4 7/16 | 4 7/8 |
| | .25 | 2.749/2.748 | ½ | 2 11/16 | 3 5/16 | 4 | 5/16 | ½ | 1.619 | 3¼ | 3 7/8 | 4 3/8 | 4 15/16 | 5 7/16 |
| | .5 | 2.9365/2.9355 | ½ | 2 7/8 | 3½ | 4 3/16 | 5/16 | ½ | 1.493 | 5 1/8 | 6 5/16 | | | |
| 2 | .2 | 2.999/2.998 | 9/16 | 2 15/16 | 3 5/8 | 4 7/16 | 3/8 | 9/16 | 1.869 | 3¼ | 3 11/16 | 4 1/8 | 4 9/16 | 5 |
| | .25 | 2.999/2.998 | 9/16 | 2 15/16 | 3 5/8 | 4 7/16 | 3/8 | 9/16 | 1.869 | 3½ | 4 1/8 | 4 5/8 | 5 3/16 | 5 11/16 |
| | .5 | 3.1865/3.1855 | 9/16 | 3 1/8 | 3 13/16 | 4 5/8 | 3/8 | 9/16 | 1.743 | 5¼ | 6 7/16 | 7½ | | |
| 2¼ | .25 | 3.374/3.373 | 9/16 | 3 5/16 | 4 | 4 13/16 | 3/8 | 9/16 | 2.119 | 3 5/8 | 4¼ | 4¾ | 5 5/16 | 5 13/16 |
| | .5 | 3.5615/3.5605 | 9/16 | 3½ | 4 3/16 | 5 | 3/8 | 9/16 | 1.993 | 5 3/8 | 6 9/16 | 7 5/8 | 8 11/16 | |
| 2½ | .25 | 3.6865/3.6855 | ¾ | 3 5/8 | 4 9/16 | 5 5/16 | ½ | ¾ | 2.369 | 4 | 4 5/8 | 5 1/8 | 5 11/16 | 6 3/16 |
| | .5 | 3.874/3.873 | ¾ | 3 13/16 | 4¾ | 5¾ | ½ | ¾ | 2.212 | 5 7/8 | 7 1/16 | 8 1/8 | 9 3/16 | |
| 3 | .5 | 4.624/4.623 | ¾ | 4½ | 5½ | 6½ | ½ | ¾ | 2.712 | 6 1/8 | 7 5/16 | 8 3/8 | 9 7/16 | 10 7/16 |
| | .75 | 4.749/4.748 | ¾ | 4 5/8 | 5 5/8 | 6 5/8 | ½ | ¾ | 2.618 | 7¾ | 9½ | 11 1/8 | | |
| 4 | .5 | 5.874/5.873 | ¾ | 5¾ | 6¾ | 7¾ | ½ | ¾ | 3.712 | 6 1/8 | 7 5/16 | 8 3/8 | 9 7/16 | 10 7/16 |
| | .75 | 5.999/5.998 | ¾ | 5 7/8 | 6 7/8 | 7 7/8 | ½ | ¾ | 3.618 | 7¾ | 9½ | 11 1/8 | 12¾ | |
| | 1.0 | 6.249/6.248 | 1 | 6 1/8 | 7 5/16 | 8 7/16 | 5/8 | 1 | 3.492 | 9 7/8 | 12 3/16 | 14 3/8 | | |

† One end of screw must not exceed diameter "G"

* Flanges have four bolt holes equally spaced, except 3" and 4" pitch diameter screws, which have six holes.

NOTE: When wipers are required, add 2½ x lead to length T.

# CAPACITY AND LIFE

$C_o$ is the Static Non-Brinnel Capacity.

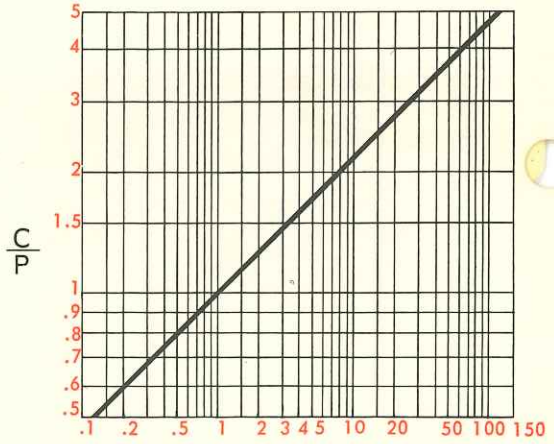
C is the Dynamic Capacity based on an average life expectancy of one million revolutions.

The expected life "L" of a screw with an applied load "P" is determined as follows:

$$L = \left(\frac{C}{P}\right)^3 \text{ Million Revolutions}$$

The graph at the right can be used to obtain life expectancy for various capacities and loads.

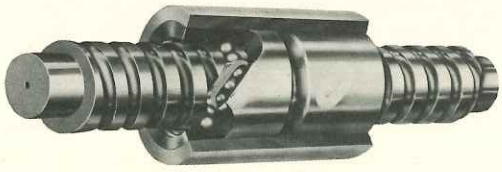
Example: Screw Load 2000 Lbs., Pitch Diameter 1¼",
Lead .500", 2 Circuit Nut
P=2000 lbs.
C=7170 lbs. (from chart)
C/P=3.58
L (from graph) =46 million revolutions




*Note: The Static and Dynamic Capacities as well as the life calculations are based on the standards established by the Anti-Friction Bearing Manufacturers' Association (AFBMA) and adopted by the American Standards Association. (ASA publication B 3.11-1959)*

All capacities are in pounds.

| PITCH DIA. | LEAD | NUMBER OF BALL CIRCUITS PER NUT | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 2 Circuits | | 3 Circuits | | 4 Circuits | | 5 Circuits | | 6 Circuits | |
| | | $C_o$ | C | $C_o$ | C | $C_o$ | C | $C_o$ | C | $C_o$ | C |
| ½ | .1 | 860 | 830 | | | | | | | | |
| | .2 | 1,410 | 1,710 | | | | | | | | |
| ¾ | .1 | 1,340 | 990 | 2,010 | 1,310 | | | | | | |
| | .2 | 2,360 | 2,360 | 3,540 | 3,150 | | | | | | |
| | .25 | 2,360 | 2,360 | 3,540 | 3,150 | | | | | | |
| 1 | .1 | 1,850 | 1,150 | 2,770 | 1,530 | 3,690 | 1,870 | | | | |
| | .2 | 3,460 | 2,880 | 5,190 | 3,820 | 6,920 | 4,670 | | | | |
| | .25 | 3,460 | 2,880 | 5,190 | 3,820 | 6,920 | 4,670 | | | | |
| 1¼ | .2 | 4,400 | 3,250 | 6,600 | 4,320 | 8,800 | 5,280 | 11,000 | 6,160 | | |
| | .25 | 4,400 | 3,250 | 6,600 | 4,320 | 8,800 | 5,280 | 11,000 | 6,160 | | |
| | .5 | 7,540 | 7,170 | | | | | | | | |
| 1½ | .2 | 5,340 | 3,440 | 8,010 | 4,560 | 10,680 | 5,570 | 13,350 | 6,500 | 16,020 | 7,400 |
| | .25 | 5,340 | 3,440 | 8,010 | 4,560 | 10.680 | 5,570 | 13,350 | 6,500 | 16,020 | 7,400 |
| | .5 | 9,420 | 8,150 | 14,130 | 10,900 | | | | | | |
| 1¾ | .2 | 6,300 | 3,750 | 9,450 | 4,980 | 12,600 | 6,100 | 15,750 | 7,120 | 18,900 | 8,080 |
| | .25 | 6,300 | 3,750 | 9,450 | 4,980 | 12,600 | 6,100 | 15,750 | 7,120 | 18,900 | 8,080 |
| | .5 | 11,940 | 9,350 | 17,910 | 12,450 | | | | | | |
| 2 | .2 | 7,380 | 4,020 | 11,070 | 5,330 | 14,760 | 6,520 | 18,450 | 7,600 | 22,140 | 8,650 |
| | .25 | 7,380 | 4,020 | 11,070 | 5,330 | 14,760 | 6,520 | 18,450 | 7,600 | 22,140 | 8,650 |
| | .5 | 13,820 | 10,000 | 20,730 | 13,350 | 27,640 | 16,300 | | | | |
| 2¼ | .25 | 8,340 | 4,220 | 12,510 | 5,620 | 16,680 | 6,870 | 20,850 | 8,000 | 25,020 | 9,100 |
| | .5 | 15,700 | 10,850 | 23,550 | 14,200 | 31,400 | 17,350 | 39,250 | 20,600 | | |
| 2½ | .25 | 9,280 | 4,380 | 13,920 | 5,830 | 18,560 | 7,130 | 23,200 | 8,320 | 27,840 | 9,450 |
| | .5 | 19,060 | 12,900 | 28,590 | 17,150 | 38,120 | 20,900 | 47,650 | 24,500 | | |
| 3 | .5 | 23,800 | 14,400 | 35,700 | 19,150 | 47,600 | 23,400 | 59,500 | 27,300 | 71,400 | 31,000 |
| | .75 | 31,100 | 20,800 | 46,650 | 27,700 | 62,200 | 33,800 | | | | |
| 4 | .5 | 32,600 | 16,250 | 48,900 | 21,600 | 65,200 | 26,400 | 81,500 | 30,800 | 97,800 | 35,000 |
| | .75 | 42,400 | 24,000 | 63,600 | 31,900 | 84,800 | 39,000 | 106,000 | 45,500 | | |
| | 1.0 | 55,400 | 34,500 | 83,100 | 46,400 | 110,800 | 56,800 | | | | |



***Compact and Symmetrical Nut is result of patented internal ball return.***

# Data Sheet for Antifriction Ball Screws

TEAR ALONG THIS PERFORATION

Company_____ Date_____

Address_____ City_____ Zone____ State_____

Name_____ Title_____

Type of application:_____

Part or drawing number:_____

## SCREW DATA

Phone No._____

Pitch diameter:_____ inches.

Lead:_____ inches. Right-hand_____. Left-hand_____.

Permissible lead error:_____ inches/ft.

Total screw length:_____ in. Threaded length: _____ in. Nut travel:_____ in.

Advise details of screw ends. Sketch on reverse side or furnish print.

## NUT DATA

Permissible backlash:_____ in. Is preloaded assembly required? Yes_____. No_____.

Nut mounting: Check type desired on reverse side and mark limiting dimensions, if any.

## APPLICATION DATA

Static load: max._____ lbs. Working load: max._____ lbs. and normal_____ lbs.

Does load reverse? Yes_____. No_____.

Rotating member: Screw_____. Nut_____. Speed_____ rpm.

Frequency of operation: Continuous_____. Frequent_____. Occasional_____.

Type of lubrication: Grease_____. Oil_____. Other_____

Mounting position: Horizontal_____. Vertical_____. Other_____

Briefly describe function of screw:_____

_____

Special considerations or other comments:_____

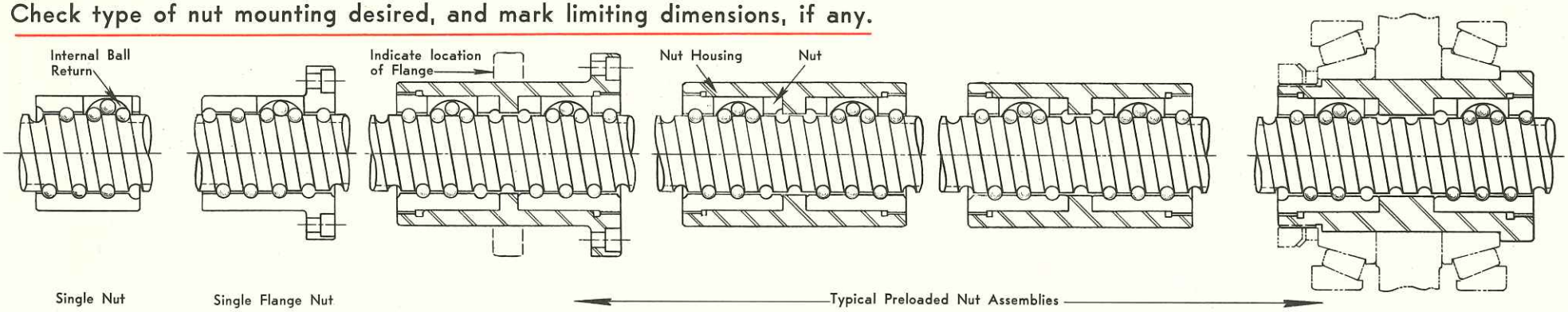
_____

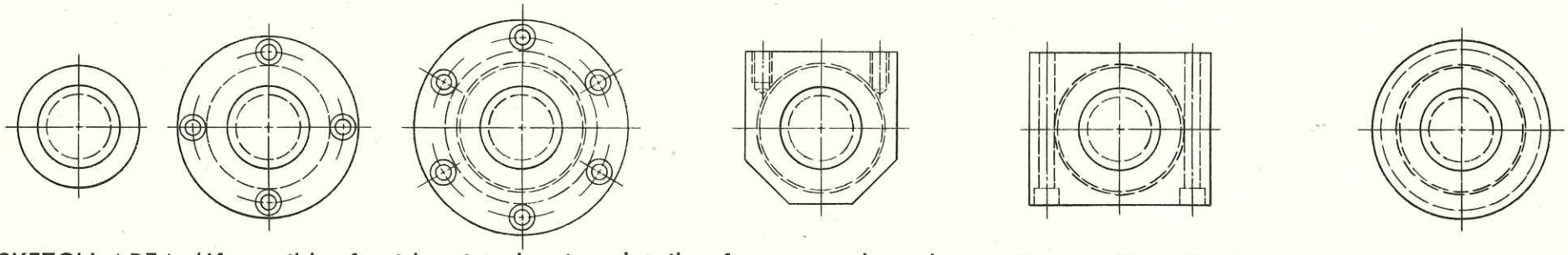
Quotation requested in quantities of:_____

**Mail this sheet to . . .**

BEARING DIVISION
SCULLY INTERNATIONAL, INC—A SUBSIDIARY OF SCULLY JONES
5240 BELMONT RD. • DOWNERS GROVE, ILLINOIS 60515 • U.S.A.
PHONE: 969-5333 AREA CODE 312 • CABLE: SCULLJO CHICAGO

## Check type of nut mounting desired, and mark limiting dimensions, if any.



## SKETCH AREA (If possible, furnish print showing details of screw ends and mounting configuration).

# Data Sheet for Antifriction Ball Screws

TEAR ALONG THIS PERFORATION

Company _____ Date _____

Address _____ City _____ Zone _____ State _____

Name _____ Title _____

Type of application: _____

Part or drawing number: _____

## SCREW DATA

Phone No. _____

Pitch diameter: _____ inches.

Lead: _____ inches. Right-hand _____. Left-hand _____.

Permissible lead error: _____ inches/ft.

Total screw length: _____ in. Threaded length: _____ in. Nut travel: _____ in.

Advise details of screw ends. Sketch on reverse side or furnish print.

## NUT DATA

Permissible backlash: _____ in. Is preloaded assembly required? Yes _____. No _____.

Nut mounting: Check type desired on reverse side and mark limiting dimensions, if any.

## APPLICATION DATA

Static load: max. _____ lbs. Working load: max. _____ lbs. and normal _____ lbs.

Does load reverse? Yes _____. No _____.

Rotating member: Screw _____. Nut _____. Speed _____ rpm.

Frequency of operation: Continuous _____. Frequent _____. Occasional _____.

Type of lubrication: Grease _____. Oil _____. Other _____

Mounting position: Horizontal _____. Vertical _____. Other _____

Briefly describe function of screw: _____

_____

Special considerations or other comments: _____

_____

Quotation requested in quantities of: _____

**Mail this sheet to . . .**

BEARING DIVISION
SCULLY INTERNATIONAL, INC—A SUBSIDIARY OF SCULLY JONES
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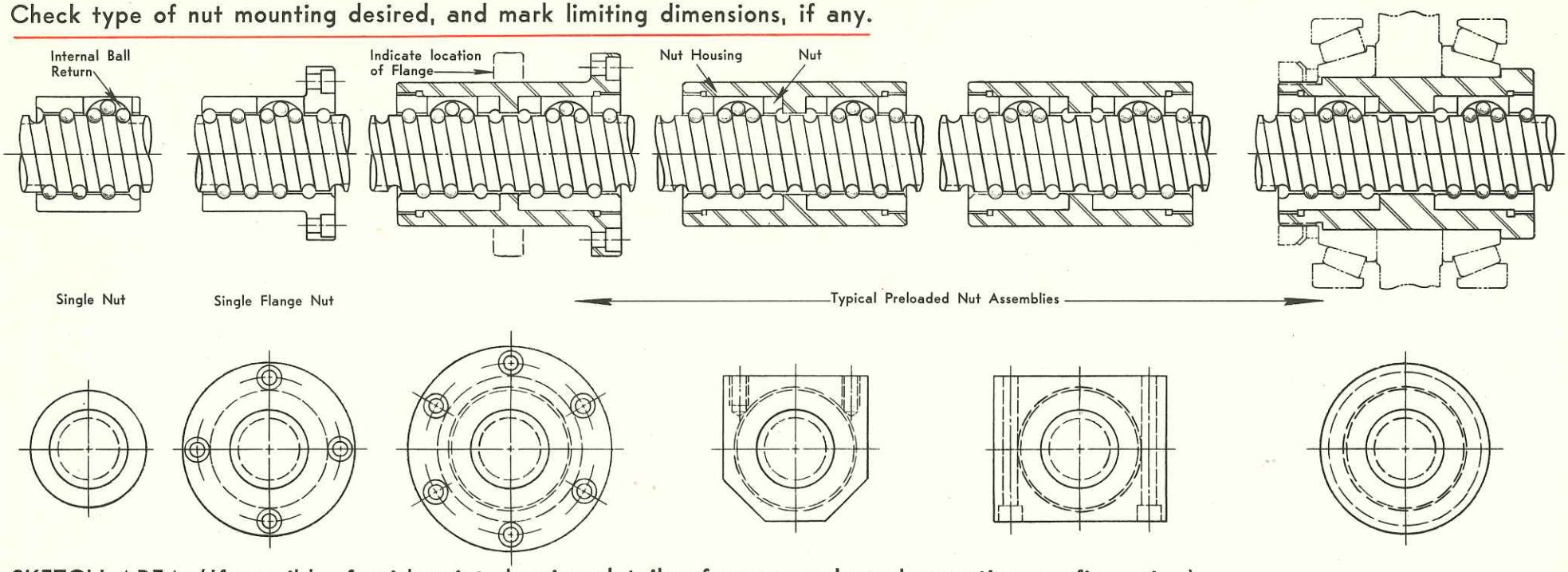
PHONE: 969-5333 AREA CODE 312 • CABLE: SCULLJO CHICAGO

## Check type of nut mounting desired, and mark limiting dimensions, if any.




## SKETCH AREA (If possible, furnish print showing details of screw ends and mounting configuration).

# Data Sheet for Antifriction Ball Screws

TEAR ALONG THIS PERFORATION

Company_____ Date_____

Address_____ City_____ Zone____ State_____

Name_____ Title_____

Type of application:_____

Part or drawing number:_____

## SCREW DATA

Phone No._____

Pitch diameter:_____inches.

Lead:_____inches. Right-hand_____. Left-hand_____.

Permissible lead error:_____inches/ft.

Total screw length:_____in. Threaded length: _____in. Nut travel:_____in.

Advise details of screw ends. Sketch on reverse side or furnish print.

## NUT DATA

Permissible backlash:_____in. Is preloaded assembly required? Yes_____. No_____.

Nut mounting: Check type desired on reverse side and mark limiting dimensions, if any.

## APPLICATION DATA

Static load: max._____lbs. Working load: max._____lbs. and normal_____lbs.

Does load reverse? Yes_____. No_____.

Rotating member: Screw_____. Nut_____. Speed_____rpm.

Frequency of operation: Continuous_____. Frequent_____. Occasional_____.

Type of lubrication: Grease_____. Oil_____. Other_____

Mounting position: Horizontal_____. Vertical_____. Other_____

Briefly describe function of screw:_____

_____

Special considerations or other comments:_____

_____

Quotation requested in quantities of:_____

Mail this sheet to . . .

BEARING DIVISION
SCULLY INTERNATIONAL, INC—A SUBSIDIARY OF SCULLY JONES
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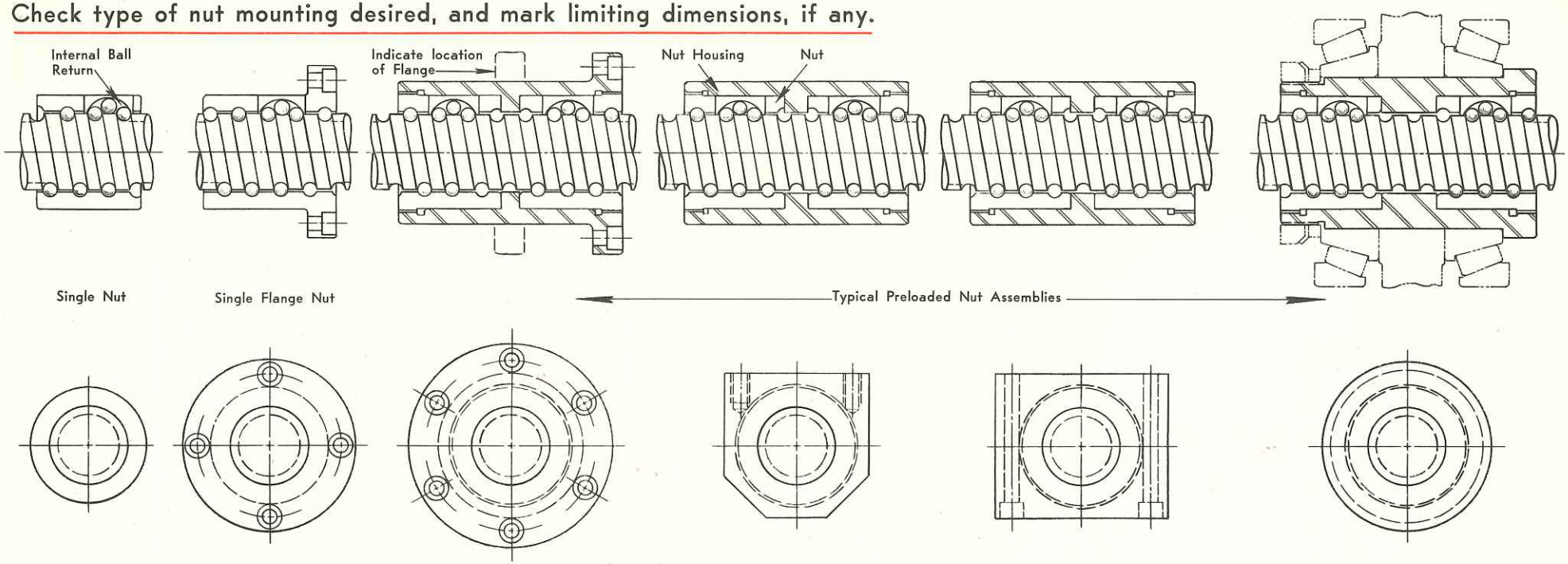
## Check type of nut mounting desired, and mark limiting dimensions, if any.




## SKETCH AREA (If possible, furnish print showing details of screw ends and mounting configuration).

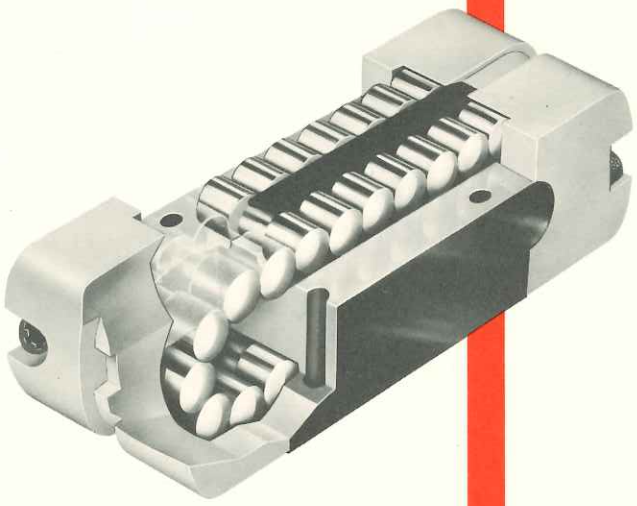
# COMPANION PRODUCTS

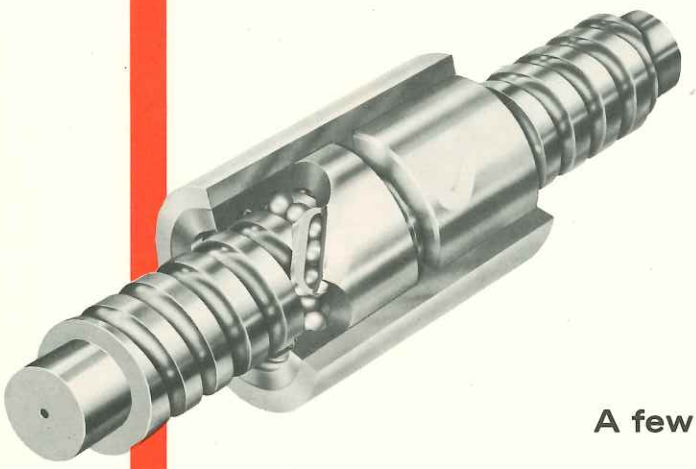
*best way . . . to beat friction*

## FRICTION-FREE MOTION:

Recirculating roller way bearings and ball screws provide mechanical advantages for supporting and moving machine components.

**TYCHOWAY** bearings combine ridigity and capacity of rollers with compact easy-to-install recirculating feature. Eliminates stick-slip as low coefficient of friction — less than .0025 — equalizing starting and moving friction. See Catalog No. 22-65





**ANTIFRICTION** ball screws offer precise linear movement, reduce power requirements and assure proper positioning under operating conditions. They are being used today on numerous types of equipment.

### A few of these include:

- **N/C Machines**
- **Drilling Machines**
- **Milling Machines**
- **Skin Mills**
- **Space & Aircraft Components**
- **Elevating Devices**
- **Material Handling Equipment**
- **Measuring Devices**
- **Scanning Tables**

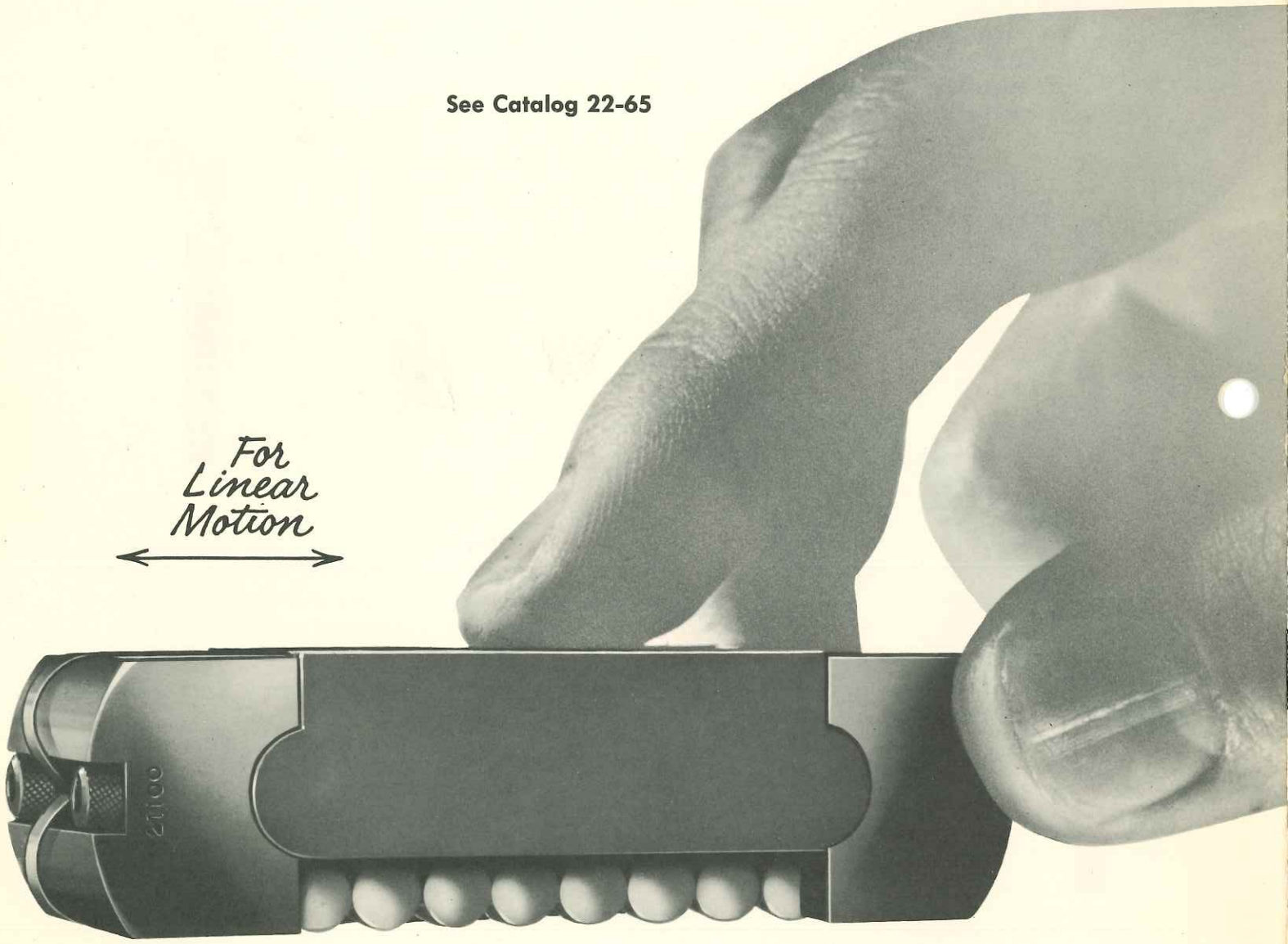
**ANTIFRICTION** Tychoway recirculating way bearings and Ball Screws (for supporting a mass moving in a straight line) are natural companion products when used to make linear motion completely predictable, accurate and repeatable.

**SPECIAL DESIGN SERVICES** — The Scully International Bearing Division offers complete engineering services. We welcome inquiries, just send us the detailed data for your application, using the enclosed data sheets.

SCULLY JONES

# TYCHOWAY ANTIFRICTION WAY BEARINGS

**See Catalog 22-65**




SOLD THROUGH:

SCULLY International

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